

## CLAIMS

1. A view programming system (PRA) capable of a view programming of a show which a user wants to view, among shows (Dav)  
5 composed of content data provided from a content data source, comprising:

at least one show receiving apparatus (200) capable of receiving the shows (Dav); and

at least one view programming apparatus (100) of programming  
10 the show receiving apparatus (200) to receive a show (Dav),

wherein the show receiving apparatus (200) can receive an electronic mail (M) via a network (320), and

the view programming apparatus (100) transmits a first electronic mail (Ms) including programmed show information (IRP)  
15 prescribing the show (Dav) to be received, via the network (320) to the show receiving apparatus (200).

2. The view programming system (PRA) according to claim 1, wherein the view programming apparatus (100) comprises:

20 show information obtaining means (132) of obtaining show information (EPG) indicating a schedule on which the shows (Dav) are to be provided;

displaying means (104) of displaying a show table (IBP) based on the show information (EPG);

25 view programming information generating means (140, 113)

of generating the programmed show information (IRP) in response to a user's selection input of a show to be view-programmed based on the displayed show table (IBP);

first electronic mail generating means (112b) of generating  
5 the first electronic mail (Ms) in association with an electronic mail address assigned to the reception apparatus (200); and

first electronic mail transmitting means (110) of transmitting the first electronic mail (Ms) to the electronic mail address.

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3. The view programming system (PRA) according to claim 2, wherein the programmed show information (IRP) includes at least information indicating a broadcast start time (Tb) and an end time of the view-programmed show and a source from which the show (Dav)  
15 is obtained.

4. The view programming system (PRA) according to claim 3, wherein the first electronic mail (Ms) is transmitted between a show start notifying time (Tmb) which is earlier by a predetermined  
20 time (Pi) than the broadcast start time (Tb), and the start time (Tb).

5. The view programming system (PRA) according to claim 4, wherein the first electronic mail (Ms) further contains a  
25 predetermined message (MMs).

6. The view programming system (PRA) according to claim 5, wherein the message (MMa) is set for each show receiving apparatus (200).

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7. The view programming system (PRA) according to claim 3, wherein an identification icon (402, 403, 404) is set for each show receiving apparatus (200), and

10 a show view-programmed in association with each corresponding show receiving apparatus (200) is indicated by the icon (402, 403, 404) on the show table (IBP).

8. The view programming system (PRA2) according to claim 5, wherein

15 the view programming apparatus (100b) further comprises:  
first recording means (114) of recording a received show (Dav),

the show receiving apparatus (200b) comprises:

20 second electronic mail generating means (203b) of generating a second electronic mail (Mt) as a return mail with respect to the first electronic mail (Ms); and

second electronic mail transmitting means (201) of transmitting the second electronic mail (Mt) to the view programming apparatus (100), and

25 when the view programming apparatus (100b) does not receive

the second electronic mail (Mt) by the broadcast start time (Tb), the view programming apparatus (100b) records the view-programmed show (IRP) into the first recording means (114).

5           9. The view programming system (PRA2) according to claim 1, wherein the show receiving apparatus (200b) displays a view-programmed show based on the programmed show information (IRP).

10           10. The view programming system (PRA2) according to claim 8, wherein the show receiving apparatus (200b) further comprises second recording means (206) of recording the received show (Dav), and records a view-programmed show into the second recording means (206) based on the programmed show information (IRP).

15           11. The view programming system (PRA2) according to claim 1, wherein a password is set for each corresponding show receiving apparatus (200b), and a subject having the password of the show receiving apparatus (200b) is described in the first electronic  
20 mail (Ms).

          12. The view programming system (PRA2) according to claim 18, wherein the view programming apparatus (100b) determines that an electronic mail having the password is determined as the second  
25 electronic mail (Mt), among received electronic mails (M).

13. The view programming system (PRA2) according to claim 18, wherein, when receiving the first electronic mail (Ms), the show receiving apparatus (200b) displays the predetermined message (MMs), transmits the second electronic mail (Mt) when the view-programmed show is not recorded in the view programming apparatus (100b), and does not transmit the second electronic mail (Mt) when the view-programmed show is recorded in the view programming apparatus (100b).

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14. The view programming system (PRA3) according to claim 8, wherein the show receiving apparatus (200c) is a mobile terminal which is driven by a built-in power supply (209),

the view programming system further comprises remaining amount detecting means (207) of detecting a remaining power amount of the power supply (209), and

when the first electronic mail (Ms) is received, the remaining power amount is detected, a maximum viewing time for which a show can be viewed is calculated based on the remaining power amount, a required view time required to view the view-programmed show is calculated based on the programmed show information (IRP), and when the maximum viewing time is smaller than the required view time, the view-programmed show is recorded into the first recording means (114).

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15. The view programming system (PRA3) according to claim 8, wherein the show receiving apparatus (200c) further comprises remaining recording capacity detecting means (207) of detecting a remaining recording capacity of the second recording means (206),  
5 and when the first electronic mail (Ms) is received, a remaining recording capacity is calculated, a maximum recording time for which the view-programmed show can be recorded is calculated based on the remaining recording capacity, a required view time required to view the view-programmed show is calculated based on the  
10 programmed show information (IRP), and when the maximum recording time is smaller than the required view time, the view-programmed show is recorded into the first recording means (114).

16. The view programming system (PRA) according to claim  
15 10, wherein, when the show receiving apparatus (200c) receives the first electronic mail (Ms) in a situation where the show receiving apparatus (200c) is set to be in a state that reception of a received electronic mail (M) is not displayed, the show receiving apparatus (200c) records a view-programmed show into  
20 the second recording means (206) based on the programmed show information (IRP), and transmits the second electronic mail (Mt).

17. The view programming system (RPA3) according to claim 12, wherein, when the view programming apparatus (100b) does not  
25 receive an electronic mail (M) which is a return mail with respect

to the first electronic mail (Ms) by the broadcast start time (Tb),  
the view programming apparatus (100b) records the view-programmed  
show into the first recording means (114), and when the view  
programming apparatus (100b) receives a third electronic mail (Ma)  
5 including changed programmed show information (IRPm) which is  
obtained by changing the programmed show information (IRP), as  
a return mail with respect to the first electronic mail (Ms), by  
the broadcast start time (Tb), the view programming apparatus  
(100b) records a show into the first recording means (114) based  
10 on the changed programmed show information (IRPm).

18. The view programming system (RPA3 to PRA7) according  
to claim 17, wherein, when broadcast start (Tb) indicated by the  
changed programmed show information (IRPm) has already passed at  
15 a time when the third electronic mail (Ta) is received, or when  
the broadcast start time Tb is lost, the view programming apparatus  
(100b) starts recording a show based on the changed programmed  
show information (IRPm) immediately after receiving the third  
electronic mail (Ma).

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19. The view programming system (PRA3 to PRA7) according  
to claim 17, wherein, when a show which is being viewed using the  
show receiving apparatus (200c) continues to be recorded in the  
view programming apparatus (100b), the show receiving apparatus  
25 (200c) transmits the third electronic mail (Ma) in which the show

information (IRPm) of the show which is being viewed is described.

20. The view programming system (PRA7) according to claim 17, wherein, when the first electronic mail (Ms) is received in the show receiving apparatus (100b), so that a view-programmed show which is being viewed cannot be viewed, information in which changed programmed show information (IRPm) indicating at least a show end time and a show obtaining source is included in the programmed show information (IRP) from which the broadcast start time (Tb) is eliminated, is transmitted as the third electronic mail (Ta).

21. The view programming system (RPA7) according to claim 17, wherein the show receiving apparatus (200g) further comprises:  
positional information search means (205) of detecting a location where the show receiving apparatus (200g) is present;  
and

a lookup table (208) including information about a broadcast station for each area, of receiving positional information data and outputting broadcast station information about the area,

when a show indicated in the programmed show information (IRP) of the received first electronic mail (Ms) is in an area in which the show cannot be received, information in which information (IRPm) including at least a show end time and a show obtaining source is included in the programmed show information



(IRP) from which the broadcast start time (Tb) is eliminated, is transmitted as the third electronic mail (Ma).

22. The view programming system according to claim 16,  
5 wherein the show receiving apparatus (200c) creates a fourth electronic mail in which a message indicating that a view-programmed show is recorded, and the fourth electronic mail is registered as an electronic mail to the show receiving apparatus (200c) itself.

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23. A view programming apparatus (100) for view programming of a show which a user wants to view, among shows (Dav) composed of content data provided from a content data source, comprising:

show receiving means (150) of receiving a show; and

15 view programming information transmitting means (110, 113, 140) of transmitting an electronic mail (Ms) including programmed show information (IRP) prescribing a view-programmed show (Dav), via a network (320) to a show receiving apparatus (200).